50C

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 516,837A

Source: PCT

Date Processed by STIC: 1-17-06

ENTERED

RAW SEQUENCE LISTING   DATE: 01/17/2006
PATENT APPLICATION: US/10/516,837A   TIME: 12:42:03

Input Set : A:\BTG0008-101(144404US01).SEQ2.txt
Output Set: N:\CRF4\01172006\J516837A.raw

```
   3 <110> APPLICANT: ISIS INNOVATION LIMITED
   4        ANDERSON, Robert Paul
   5        HILL, Adrian Vivian Sinton
   6        JEWELL, Derek Parry
   8 <120> TITLE OF INVENTION: THERAPEUTIC EPITOPES AND USES THEREOF
  10 <130> FILE REFERENCE: 142769 / P035468WO
C-->12 <140> CURRENT APPLICATION NUMBER: US/10/516,837A
C-->13 <141> CURRENT FILING DATE: 2004-12-03
  15 <150> PRIOR APPLICATION NUMBER: GB 0212885.8
  16 <151> PRIOR FILING DATE: 2002-06-05
  18 <160> NUMBER OF SEQ ID NOS: 758
  20 <170> SOFTWARE: SeqWin99, version 1.02
  22 <210> SEQ ID NO: 1
  23 <211> LENGTH: 7
  24 <212> TYPE: PRT
  25 <213> ORGANISM: Artificial Sequence
  27 <220> FEATURE:
  28 <223> OTHER INFORMATION: wheat gliadin peptide
  30 <400> SEQUENCE: 1
  31 Pro Gln Pro Glu Leu Pro Tyr
  32 1               5
  34 <210> SEQ ID NO: 2
  35 <211> LENGTH: 17
  36 <212> TYPE: PRT
  37 <213> ORGANISM: Artificial Sequence
  39 <220> FEATURE:
  40 <223> OTHER INFORMATION: wheat gliadin peptide
  42 <400> SEQUENCE: 2
  43 Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln
  44 1               5                   10                  15
  46 Ser
  49 <210> SEQ ID NO: 3
  50 <211> LENGTH: 266
  51 <212> TYPE: PRT
  52 <213> ORGANISM: Homo sapiens
  54 <400> SEQUENCE: 3
  55 Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln
  56 1               5                   10                  15
  58 Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro Gly
  59              20                  25                  30
  61 Gln Gln Gln Gln Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro
  62              35                  40                  45
  64 Phe Pro Ser Gln Gln Pro Tyr Leu Gln Leu Gln Pro Phe Pro Gln Pro
```

(pg. 6)

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```
65      50              55                  60
67 Gln Leu Pro Tyr Pro Gln Pro Gln Ser Phe Pro Pro Gln Gln Pro Tyr
68 65                  70                  75                  80
70 Pro Gln Pro Gln Pro Gln Tyr Ser Gln Pro Gln Gln Pro Ile Ser Gln
71                  85                  90                  95
73 Gln Gln Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
74                  100                 105                 110
76 Gln Ile Leu Gln Gln Ile Leu Gln Gln Gln Leu Ile Pro Cys Met Asp
77          115                 120                 125
79 Val Val Leu Gln Gln His Asn Ile Ala His Ala Arg Ser Gln Val Leu
80      130                 135                 140
82 Gln Gln Ser Thr Tyr Gln Leu Leu Gln Glu Leu Cys Cys Gln His Leu
83 145                 150                 155                 160
85 Trp Gln Ile Pro Glu Gln Ser Gln Cys Gln Ala Ile His Asn Val Val
86                  165                 170                 175
88 His Ala Ile Ile Leu His Gln Gln Gln Lys Gln Gln Gln Gln Pro Ser
89                  180                 185                 190
91 Ser Gln Val Ser Phe Gln Gln Pro Leu Gln Gln Tyr Pro Leu Gly Gln
92              195                 200                 205
94 Gly Ser Phe Arg Pro Ser Gln Gln Asn Pro Gln Ala Gln Gly Ser Val
95      210                 215                 220
97 Gln Pro Gln Gln Leu Pro Gln Phe Glu Glu Ile Arg Asn Leu Ala Leu
98 225                 230                 235                 240
100 Gln Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Ala Pro Tyr Cys Thr
101                 245                 250                 255
103 Ile Ala Pro Phe Gly Ile Phe Gly Thr Asn
104                 260                 265
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 7
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: wheat gliadin peptide
114 <400> SEQUENCE: 4
115 Pro Gln Pro Gln Leu Pro Tyr
116 1               5
118 <210> SEQ ID NO: 5
119 <211> LENGTH: 20
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: wheat gliadin peptide
126 <400> SEQUENCE: 5
127 Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro
128 1               5                   10                  15
130 Gln Ser Phe Pro
131             20
133 <210> SEQ ID NO: 6
134 <211> LENGTH: 17
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RAW SEQUENCE LISTING   DATE: 01/17/2006
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Input Set : A:\BTG0008-101(144404US01).SEQ2.txt
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135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: wheat gliadin peptide
141 <400> SEQUENCE: 6
142 Glu Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln
143 1               5                   10                  15
145 Ser
148 <210> SEQ ID NO: 7
149 <211> LENGTH: 17
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: wheat gliadin peptide
156 <400> SEQUENCE: 7
157 Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro. Tyr Pro Gln Pro Glu
158 1               5                   10                  15
160 Ser
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 17
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: wheat gliadin peptide
171 <400> SEQUENCE: 8
172 Glu Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Glu
173 1               5                   10                  15
175 Ser
178 <210> SEQ ID NO: 9
179 <211> LENGTH: 5
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: wheat gliadin peptide
186 <400> SEQUENCE: 9
187 Gln Pro Gln Leu Pro
188 1               5
190 <210> SEQ ID NO: 10
191 <211> LENGTH: 17
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: wheat gliadin peptide
198 <400> SEQUENCE: 10
199 Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln
200 1               5                   10                  15
202 Ser
205 <210> SEQ ID NO: 11
206 <211> LENGTH: 20
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207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: wheat gliadin peptide
213 <400> SEQUENCE: 11
214 Leu Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro
215 1               5                 10                15
217 Gln Ser Phe Pro
218             20
220 <210> SEQ ID NO: 12
221 <211> LENGTH: 5
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: wheat gliadin peptide
228 <400> SEQUENCE: 12
229 Pro Gln Leu Pro Tyr
230 1               5
232 <210> SEQ ID NO: 13
233 <211> LENGTH: 12
234 <212> TYPE: PRT
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: wheat gliadin peptide
240 <400> SEQUENCE: 13
241 Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr
242 1               5                 10
244 <210> SEQ ID NO: 14
245 <211> LENGTH: 11
246 <212> TYPE: PRT
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: wheat gliadin peptide
252 <400> SEQUENCE: 14
253 Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln
254 1               5                 10
256 <210> SEQ ID NO: 15
257 <211> LENGTH: 14
258 <212> TYPE: PRT
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: wheat gliadin peptide
264 <400> SEQUENCE: 15
265 Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp
266 1               5                 10
268 <210> SEQ ID NO: 16
269 <211> LENGTH: 16
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
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```
273 <220> FEATURE:
274 <223> OTHER INFORMATION: wheat gliadin peptide
276 <400> SEQUENCE: 16
277 Ile Asp Val Trp Leu Gly Gly Leu Leu Ala Glu Asn Phe Leu Pro Tyr
278 1               5                   10                  15
281 <210> SEQ ID NO: 17
282 <211> LENGTH: 17
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: wheat gliadin peptide
289 <400> SEQUENCE: 17
290 Pro Gln Pro Gln Pro Phe Pro Pro Glu Leu Pro Tyr Pro Gln Pro Gln
291 1               5                   10                  15
293 Ser
296 <210> SEQ ID NO: 18
297 <211> LENGTH: 9
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: wheat gliadin peptide
304 <400> SEQUENCE: 18
305 Phe Pro Gln Pro Gln Leu Pro Tyr Pro
306 1               5
308 <210> SEQ ID NO: 19
309 <211> LENGTH: 9
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: wheat gliadin peptide
316 <400> SEQUENCE: 19
317 Phe Pro Gln Pro Gln Gln Pro Phe Pro
318 1               5
320 <210> SEQ ID NO: 20
321 <211> LENGTH: 9
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: wheat gliadin peptide
328 <400> SEQUENCE: 20
329 Pro Gln Gln Pro Gln Gln Pro Phe Pro
330 1               5
332 <210> SEQ ID NO: 21
333 <211> LENGTH: 12
334 <212> TYPE: PRT
335 <213> ORGANISM: Artificial Sequence
337 <220> FEATURE:
338 <223> OTHER INFORMATION: wheat gliadin peptide
340 <400> SEQUENCE: 21
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/17/2006
PATENT APPLICATION: US/10/516,837A   TIME: 12:42:04

Input Set : A:\BTG0008-101(144404US01).SEQ2.txt
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; Xaa Pos. 1,2,3,4,5,6,7,10,11,12,13,14,15,16,17
Seq#:37; Xaa Pos. 2
Seq#:38; Xaa Pos. 2,3,4
Seq#:45; Xaa Pos. 3,5
Seq#:64; Xaa Pos. 2

VERIFICATION SUMMARY   DATE: 01/17/2006
PATENT APPLICATION: **US/10/516,837A**   TIME: 12:42:04

Input Set : **A:\BTG0008-101(144404US01).SEQ2.txt**
Output Set: **N:\CRF4\01172006\J516837A.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:379 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:23
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:593 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:37
L:593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:613 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:38
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:708 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:45
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:955 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:64
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
```